| POSITION                  | INITIALS | D NO. | DATE     |
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| FEE DETERMINATION         | M        | 67411 | 10/2//2) |
| O.I.P.E. CLASSIFIER       | -977     | 11/   | 11/15    |
| FORMALITY REVIEW          | 4        | 7/423 | 11-27-6  |
| RESPONSE FORMALITY REVIEW | 1/8/     | 11480 | 4-17-01  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N Non-e   | lected |
|---|----------------------------|-----------|--------|
| = | Allowed                    | I Interfe | rence  |
| _ | (Through numeral) Canceled | A Appea   | l l    |
| ÷ | Restricted                 | O Object  | ted    |

|      |          |            |            |                           |            |                                                  | ÷            | - (          | Thr      | oug      |          |          | eral | ) (<br>    | Cano<br>Rest | rict     | d<br>ed  |           |          |          | А<br>О   | ••••     |          |         | ••••     |     | ••••• | App<br>Obje | eal<br>cted                                      | i        |          |   |
|------|----------|------------|------------|---------------------------|------------|--------------------------------------------------|--------------|--------------|----------|----------|----------|----------|------|------------|--------------|----------|----------|-----------|----------|----------|----------|----------|----------|---------|----------|-----|-------|-------------|--------------------------------------------------|----------|----------|---|
| ſ    | Cla      | ıim        | Γ          |                           |            |                                                  | Da           | te           |          |          | -        | -        | 1    | CI         | aim          |          |          |           |          | Da       | te       |          |          |         | ٦        |     | Cla   | im          |                                                  |          |          | _ |
|      |          | 1 priginal | 2/1/20     | 15/2                      |            |                                                  |              |              |          |          |          |          |      | Final      | 賣            |          |          |           |          |          |          |          |          |         |          |     | Final | Original    |                                                  |          |          |   |
|      |          | Ū          | V          | <b>1</b> $\overline{\nu}$ | 1          |                                                  |              |              |          |          |          |          | ]    |            | 51           |          |          |           |          |          |          |          |          | $\top$  |          |     |       | 101         | _                                                | Г        | $\vdash$ | t |
|      |          | -2         | 7          |                           | <u> </u>   |                                                  |              | _            |          | _        | L        | L        |      |            | 52           | _        |          | L         | L        |          |          |          |          |         |          |     |       | 102         |                                                  |          |          |   |
| L    | 1        | 3          | J,         | 1                         | 1_         | _                                                |              | L            | L        | L        | L        | L        | ]    | L          | 53           |          |          |           | L        |          |          |          | $\perp$  |         |          | ı   |       | 103         |                                                  |          |          |   |
| L    | _        | 4          | <u>V</u> , | 1                         | 1_         | <u> </u>                                         | _            | <u> </u>     | <u> </u> | ┖        | ╙        | L        | 1    | _          | 54           |          | _        | L         | L        | <u> </u> | L        |          |          | $\perp$ | 4        |     |       | 104         | L                                                |          |          |   |
| ŀ    | _        | 5          | Į.         | 1                         | 1_         | _                                                | $\vdash$     | ļ            | $\vdash$ | <u> </u> | ╙        |          | 4    | <u> </u>   | 55           |          |          |           | <u> </u> | <u> </u> |          |          | _        | _       | 4        |     | _     | 105         | ↓_                                               | L        | Ш        | L |
| ŀ    | 4        | <b>©</b>   | Ľ          | Y                         | 凗          | ⊢                                                | <del> </del> | -            | -        | ├        | -        | ⊢        | {    | <u> </u>   | 56<br>57     | -        |          | _         | <u> </u> | <u> </u> | $\vdash$ | H        |          | 4       | 4        | l   |       | 106         | $\vdash$                                         | <u> </u> | Ш        | L |
| ŀ    | -        | 8          | X          | V                         | <b>}</b> _ | ⊢                                                | -            | ├            | -        | ┝        | ⊢        | ⊢        | ł    | ⊢          | 58           |          |          | _         | <u> </u> | ⊢        | -        |          | _        | +       | 4        | -   |       | 107<br>108  | ╄                                                | <u> </u> | <u> </u> | ŀ |
| ŀ    | -        | 9          | X          | V                         | $\vdash$   | ├                                                |              | ├—           | ├        | ┢        | ┢        | -        | ł    | ├          | 59           | -+       | _        |           | -        | <u> </u> | -        | $\vdash$ | -        | +       | 4        | ŀ   | _     |             | ╀                                                | ├        | $\vdash$ | - |
| ╌    | $\dashv$ | -<br>10    | ž          | Ľ                         | <u> </u>   | ┢                                                | -            | ⊢            | -        | ┢        | ┝        | ┝        | ł    | ⊢          | 60           | $\dashv$ |          | _         |          |          | -        |          | $\dashv$ | +       | $\dashv$ |     | _     | 109<br>110  | ₩                                                | -        | $\vdash$ | ŀ |
| ŀ    | ┪        | 11         | 7          |                           | ⊢          |                                                  | $\vdash$     | ⊢            | -        | ┢        | ┝        | ┝        | 1.   | -          | 61           | +        | _        |           |          | H        | -        | Н        | $\dashv$ | +       | ┥        | 1   | _     | 111         | ╁╌                                               | -        | $\vdash$ | ŀ |
| 卜    | ┪        | 12         | J          | V                         | ┢          |                                                  | -            | -            | <u> </u> | ╁╌       | $\vdash$ | H        | 1    | 1          | 62           | -        | -        |           |          | ┝        |          | Н        | +        | +       | ┪        | ŀ   | _     | 112         | +                                                | Ė        | Н        | ŀ |
| 卜    | ┪        | 13         | Ť          | V                         |            | <del>                                     </del> | ┢            |              | ┢╾       | ┢        | H        | -        |      | -          | 63           | _        | _        |           |          | $\vdash$ |          | Н        | +        | +       | $\dashv$ | ı   |       | 113         | ╁                                                | H        | Н        | r |
| 上    | ₹        | 14         | J.         | ブ                         | $\vdash$   |                                                  | $\vdash$     |              |          |          | T        | Г        |      | Г          | 64           | 寸        |          | П         |          |          |          |          | $\dashv$ | +       | 7        | Ì   | _     | 114         | <del>                                     </del> |          | Н        | r |
| ı    | T        | 15         | J          | V                         | 1          |                                                  |              |              | Г        | T        | Г        | Г        | 1    | Г          | 65           | 7        |          |           |          |          |          |          | _        | $\top$  | ┪        |     | _     | 115         | T                                                | F        |          | r |
| ٦    | T        | 16         | 7          | ⅳ                         |            |                                                  |              | Π            |          | ऻ        |          | Г        | 1    |            | 66           | ┪        |          |           |          |          |          |          |          |         | ╗        |     |       | 116         | T                                                |          | П        | r |
| ].   |          | 17         | 7          | J                         |            |                                                  |              |              |          |          |          |          |      |            | 67           |          |          |           |          |          |          |          |          |         | 7        |     |       | 117         | $\vdash$                                         |          | П        | ľ |
|      | Ċ        | 18         |            | IJ                        |            |                                                  |              |              | ŀ        | <u> </u> |          |          |      | Ŀ          | 68           |          |          |           |          |          |          |          |          |         |          |     |       | 118         |                                                  |          |          | Ī |
|      |          | 19         | J          |                           |            |                                                  | <u> </u>     | Ŀ            |          |          |          |          |      | Ŀ          | 69           |          |          |           |          |          |          |          |          |         |          |     |       | 119         | Π                                                |          |          | Γ |
| 1    |          | 20         | 7          | V                         | _          | L                                                |              |              |          |          |          |          | ]    |            | 70           |          |          |           |          |          |          |          |          |         |          |     |       | 120         |                                                  |          | П        | Γ |
| Ι    |          | 21         |            |                           |            |                                                  |              |              |          |          |          |          |      |            | 71           |          |          |           |          |          |          |          |          |         |          |     |       | 121         |                                                  |          |          | Ī |
| L    |          | 22         |            | L                         | L          |                                                  |              |              |          |          |          |          |      | L          | 72           |          |          |           |          |          |          |          |          |         |          |     |       | 122         |                                                  |          |          | Ĺ |
| L    |          | 23         |            | _                         | L.         | L                                                | L            | _            | _        | L        | L        | L        |      | L          | 73           | _        | _        |           |          |          | Щ        |          | _        | _       | ╛        | Į.  |       | 123         |                                                  |          | Ш        |   |
| L    | _        | 24         |            | <u> </u>                  | _          | _                                                |              | L            | <u> </u> | L        | L        | L.       | ŀ    | <u></u>    | 74           | $\dashv$ |          |           | $\Box$   | Ш        |          |          | $\dashv$ | _       | 4        |     |       | 124         | L                                                |          | Ш        | L |
| -    |          | 25         |            | _                         | <u> </u>   |                                                  | ļ            | _            | _        | L        | _        | _        |      | <u> </u>   | 75           | -1       |          |           | _        | _        |          |          | _        | 1       | 4        |     |       | 125         | ╙                                                | _        | Ш        | L |
| - }- |          | 26         | _          | ├_                        | <b> </b>   | _                                                | -            | <del> </del> | _        | _        | _        | <u> </u> |      | <u> </u> _ | 76           | 4        | _        | _         | $\vdash$ | L        |          |          |          | 4       | 4        | ŀ   |       | 126         | <u> </u>                                         | _        |          | L |
| -    | _        | 27<br>28   | -          | ├                         | -          | -                                                | -            | -            | -        |          | -        | _        |      | ├          | 77<br>78     | -        | -        | _         | _        |          | ⊢        |          | -        | -       | 4        |     |       | 127<br>128  | ┷                                                | <u> </u> | Н        | L |
| ┝    |          | 29         |            | ├                         | Ŀ          | -                                                | -            | H            | -        | ŀ-       | 0.5      | -        |      | ├          | 79           | -        | $\dashv$ | _         | ⊢        | H        | ⊢        | -        |          | +       | 4        |     |       | 128         | ┿                                                |          |          | ŀ |
| -    |          | 30         | _          | -                         | -          | $\vdash$                                         | ⊢            | ├-           | -        | -        | -        | -        | ٠.   | ┝          | 80           | +        | -        | -         |          | Н        | -        |          | $\dashv$ | +       | ┥        | H   |       | 130         | ⊬                                                |          | Н        | - |
| ┢    |          | 31         |            | H                         | ├          |                                                  | -            | ├            | -        | ├─       | ┝        | H        | ł    | ⊩          | 81           | +        | -        |           | -        | Н        | -        | Н        | $\dashv$ | +       | $\dashv$ | ŀ   |       | 131         | ╁                                                |          | H        | ŀ |
| H    | _        | 32         |            | <del> </del>              | ┢          |                                                  | -            | ╁─           | ⊢        | ╁╴       | ┢        | -        |      | ┢          | 82           | $\dashv$ | -        |           |          | Η.       | $\vdash$ |          | ┪        | +       | $\dashv$ | ŀ   |       | 132         | $\vdash$                                         | -        | Н        | H |
| 卜    | 7        | 33         | $\vdash$   | -                         | H          | Н                                                | -            | 1-           | Н        | $\vdash$ | ┢        |          | 1    | ┢          | 83           | -        | $\neg$   | _         | H        | $\vdash$ |          | $\vdash$ | $\dashv$ | +       | $\dashv$ |     | _     | 133         | ╁                                                |          | Н        | r |
| 上    | 7        | 34         |            |                           |            | Г                                                | -            | 一            | -        | 1        | $\vdash$ | $\vdash$ | 1    | Г          | 84           | $\dashv$ | ┪        | $\exists$ |          | $\vdash$ | Г        | $\vdash$ | 十        | 十       | $\dashv$ | ł   |       | 134         | T                                                | 一        | Н        | r |
| Γ    |          | 35         |            |                           |            | Г                                                | Γ            | Γ            | Г        | Π        |          | Г        | 1    | Г          | 85           | 1        |          |           |          |          | П        | $\Box$   | $\dashv$ | $\top$  | $\dashv$ | 1   |       | 135         |                                                  | Г        | П        | r |
|      | П        | 36         |            |                           |            |                                                  |              |              | Г        | Г        | Г        | Г        | 1    | Г          | 86           | T        |          |           |          |          |          |          | ┪        | 1       | 7        |     |       | 136         | Г                                                |          | П        | r |
|      | _        | 37         |            |                           |            |                                                  |              |              |          |          |          |          | 1    | Г          | 87           |          |          |           |          |          |          |          |          |         | ٦        | 1   |       | 137         | Г                                                |          | П        | Ī |
|      |          | 38         |            |                           |            |                                                  |              |              |          |          |          |          |      |            | 88           |          |          |           |          |          |          |          | $\Box$   |         |          | [   |       | 138         |                                                  |          |          | L |
| L    |          | 39         |            |                           | <u> </u>   | Ŀ                                                | _            |              |          |          |          |          |      |            | 89           |          |          |           |          |          |          |          |          | $\perp$ |          | [   |       | 139         |                                                  |          | $\Box$   | Ĺ |
| ہا   |          | 40         |            |                           | L          |                                                  | Ŀ            |              |          | <u> </u> | L        | L        | بح   | <u>.</u>   | 90           | $\perp$  |          |           |          | ,        |          |          |          | :       | ╛        | l   |       | 140         | L                                                |          |          | L |
| Ì    |          | 41         |            |                           | _          |                                                  |              | L            | Ш        | L        |          |          | -    | L          | 91           |          |          |           |          |          |          |          |          | _L      |          |     |       | 141         |                                                  |          |          |   |
| Ŀ    |          | 42         |            | $\Box$                    | L          |                                                  | L            | L            |          |          |          | Ĺ        |      |            | 92           | $\perp$  |          |           |          |          |          |          | $\Box$   | $\perp$ | _]       | [   |       | 142         |                                                  |          |          | Ĺ |
| - 1  | 3        | 43         |            | $\sqcup$                  | L          |                                                  | L            | _            | <u> </u> | _        | L        | L        |      | L          | 93           | _        |          |           |          | Ш        | Ш        | Ш        | _[       |         | 4        |     | _     | 143         | $oxed{\Box}$                                     |          | Ш        | Ĺ |
| Ļ    | 4        | 44         | Ц          | lacksquare                | L          | L_                                               | <u> </u>     | L            | Ŀ        | L        | L        | L        |      | L          | 94           | _ļ       | _        |           |          | Ш        | Щ        | Ш        | _        | $\perp$ | $\perp$  |     |       | 144         | Ш                                                | Ш        | Ш        | L |
| F    | _        | 45         | Ц          | Ш                         | L          | L                                                | L            | L            | L        | _        | ٦        | ٠        |      |            | 95           | 4        | _        | _         | Ц        | Щ        | Щ        | Ц        | _[       | $\perp$ | 4        | Į   | _     | 145         | $\Box$                                           |          | П        | _ |
| -    | _        | 46         | _          | Щ                         | <u> </u>   | -                                                | $\vdash$     | _            | <u> </u> | L        | L,       | Ļ        | l    | <u> </u>   | 96           | 4        | _        | _         | Щ        | Щ        | Ш        | $\sqcup$ | _        | $\bot$  | _        | ļ   | _     | 146         | <b>⊢</b>                                         | Ш        | 니        | _ |
| -    |          | 47         | _          | Ш                         | <u> </u>   | <b> </b>                                         | $\vdash$     | L            | L        | _        | L        | -        | l    | L          | 97           | 4        | _        | _         | $\perp$  | Щ        | Ш        | $\sqcup$ | $\dashv$ | _       | 4        | 1   | _     | 147         | $\sqcup$                                         | Щ        | $\sqcup$ | _ |
| -    | _        | 48<br>49   |            | Н                         | $\vdash$   | H                                                | H            | $\vdash$     | -        | L        | H        | Ļ.,      |      |            | 98           | 4        | -        |           | Щ        | Щ        | Щ        |          | $\dashv$ | +       | $\dashv$ | ļ   | _     | 148         |                                                  | Н        | $\vdash$ | _ |
| H    |          | 50         | -          | Н                         | -          | Н                                                | $\vdash$     | $\vdash$     | ⊢        | -        | H        | ļ        | l    | ├          | 100          | +        |          | $\dashv$  | Н        |          | Н        | $\vdash$ | $\dashv$ | +       | -        | - } |       | 149<br>150  | $\vdash$                                         | Н        | ⊢┩       | _ |
|      | - 13     | ~!         |            | · I                       | 1          | . !                                              | t I          | t l          |          | •        |          | 1        |      |            | 1100         | - 1      | - 1      |           |          |          |          |          | - 1      | ı       | 1        | - 1 | - 1   | ıou         |                                                  |          | . 1      |   |

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